

Notice of Allowability

Application No.

09/981,453

Examiner

Robert Stevens

Applicant(s)

JUNKERMANN, JENS B.

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 4/12/2007.
2. ☒ The allowed claim(s) is/are 21-22, 24-30, 32-33, 41-50, 64-76 and 79-97 (renumbered as 1-53).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 20070613.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


SHAHID ALAM
PRIMARY EXAMINER

DETAILED ACTION

1. The Office has withdrawn all rejections raised in the Non-Final Rejection mailed 1/12/2007.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Sanders Hillis, Reg. No. 45,712 on June 13, 2007.

The application has been amended as follows:

In the claims:

3. Amend claim 64, as follows:

64. (Currently Amended) An e-commerce architecture for providing a framework to interface delivery technologies with data, the e-commerce architecture comprising:

a server computer operable to execute instructions to convert a request from a delivery technology to a first document object model document in an extensible markup

language, the first document object model document comprising a plurality of request parameters extracted from the request;

the server computer operable to execute instructions included in a Message class that is operable as a wrapper of the document object model document to restrict the conversion to the first document object model document based on a listing of data types that are pre-specified for the request parameters by a plurality of methods included in the Message class, wherein the data types limit a first data structure of a plurality of fields included in the first document object model document to a predetermined data structure specified by the data types;

the server computer operable to execute instructions to retrieve data ~~that may be~~ responsive to the request, and convert the data to a second document object model document in the extensible markup language based on the request parameters;

the server computer operable to execute instructions included in a Message class that is operable as a wrapper of the document object model document to restrict the conversion of the data to the second document object model document to limit a second data structure of a plurality of fields included in the second document object model document to the predetermined data structure specified by the methods included in the Message class; and

the server computer operable to execute instructions to generate an output message in a format that is compatible with the delivery technology.

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4. After a thorough search, and in light of the prior art of record, claims 21-22, 24-30, 32-33, 41-50, 64-76 and 79-97 (renumbered as 1-53) are allowed.

Reasons For Allowance

5. The following is an examiner's statement of reasons for allowance:

The present invention is directed to methods and systems for implementing a design pattern for a software architecture including a business services layer comprising ApiService, BusinessService, Message and Field classes for creating an output message to generate a self-describing form for use in an e-commerce environment.

The closest prior art, Merrick et al (US 7,028,312), is a technique for employing a Remote Procedure Call message expressed via mark up language encoding with type labels indicating data item types. Further, the cited Moore et al (US2002/0124045) reference is directed to techniques for interfacing front-end and back-end systems and associating incoming messages with business logic nodes.

These references do not disclose the limitation of during the translation with the ApiService class to the first document object model (DOM) document, limiting with a Message class that is a wrapper of the DOM document a first data structure of the first document object model document to representation as an input message with a plurality of fields, wherein the first data structure is limited by a plurality of methods included in the Message class to represent a field data type that is pre-specified.

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6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Non-Patent Literature


Shim, Simon S. Y., et al., "Business-to-Business E-Commerce Frameworks", Computer, Vol. 33, Issue 10, Oct. 2000, pp. 40-47.

Contact Information


8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Stevens whose telephone number is (571) 272-4102. The examiner can normally be reached on M-F 6:00 - 2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Robert Stevens
Examiner
Art Unit 2162

June 19, 2007


SHAHID ALAM
PRIMARY EXAMINER